



PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Application Number 10/656,245 **TRANSMITTAL** Filing Date September 8, 2003 **FORM** First Named Inventor (to be used for all correspondence after initial filing) Gary J. MULLEN Group Art Unit 3762 **Examiner Name** Not Yet Assigned Total Number of Pages in This Submission Attorney Docket Number 030640-2 ENCLOSURES (check all that apply) Fee Transmittal Form After Allowance Communication to Group Assignment Papers (for an Application) E Copy of twelve (12) Fee Attached ☐ Drawing(s) references Amendment / Reply Declaration and Power of Attorney ☐ After Final ☐ Licensing-related Papers PETITION To Make Special ☐ Affidavits/declaration(s) Petition to Convert to a Provisional ■ Extension of Time Request Application Express Abandonment Request Power of Attorney, Revocation Change of Correspondence Address Information Disclosure Statement Terminal Disclaimer Certified Copy of Priority Request for Refund Document(s) CD, Number of CD(s) Response to Notice to File Corrected **Application Papers** Remarks The Commissioner is hereby authorized to charge any additional fees Response to Missing Parts required or credit any overpayments to Deposit Account No. 19-2380 for the under 37 CFR 1.52 or 1.53 above identified docket number. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Jerome W. Massie IV, Reg. No Nixon Peabody LLP Individual name 401 9th Street, N.W Suite 900 Washington, D.C. Signature March 29, 2004 Date CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

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Date

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## FEE TRANSMITTA FOR FY 20043 Patent fees are subject to annual review status. See 37 CFR FADENAR

Applicant claims small entity status. See 37 CFR TOTAL AMOUNT OF PAYMENT (\$) 130

Complete if Known				
Application Number	To Be Assigned			
Phing Date	September 8, 2003			
First Named Inventor Kaminer Name	Gary J. MULLEN			
kaminer Name	To Be Assigned			
Art Unit	3762			
Attorney Docket No.	030640-2			

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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	)	
Gary J. MULLEN	)	Examiner: Not yet assigned
Serial No. 10/656,245	)	Group Art Unit: 3762
Filed: September 8, 2003	)	Date: March 29, 2004
For: AN APPARATUS FOR TREATING PNEUMOTHORAX AND/OR HEMOTHORAX	)	Confirmation No.: 8853

## PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner Of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant hereby petitions under 37 C.F.R. § 1.102(d) to have the above-captioned application advanced for examination. The Manual of Patent Examination and Procedure, at Chapter 708.02 @VIII, provides, in part, that a new application may be granted special status provided that applicant (1) submits a petition to make special accompanied by the fee set forth in 37 C.F.R. 1.17(h), (2) presents all claims directed to a single invention, (3) submits a statement that a pre-examination search was made, listing the field of search by class and subclass, publication, Chemical Abstracts, foreign patents, etc., (4) submits one copy each of the references deemed most closely related to the subject matter encompassed by the claims if said references are not already of record, and (5) submits a detailed discussion of the references, which discussion points out, with the particularity required by 37 C.F.R. 1.111 (b) and (c), how the claimed subject matter is patentable over the references. (MPEP 708.02 § VIII)

In conformance with the above provision, Applicant herein asserts that the claims are directed to a single inventive concept, i.e., a device for treating a pneumothorax and method of using the device for treating a pneumothorax, and agrees, if more than one inventive concept is determined to be present, to make an election without traverse. Additionally, the

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Applicant asserts that a pre-examination search was completed on May 1, 2003. The search encompassed Class 604, subclasses 167.02, 167.03, 247, 257, and 264. Additionally, a computer database search was conducted on the USPTO systems EAST and WEST. Moreover, Examiner Kevin Sirmons in Class 604 (Art Unit 3763) was consulted in confirming the field of search.

The search yielded the references included in the Information Disclosure Statement filed December 10, 2003 in the above-identified application. Those references included the following:

U.S. Patent Number	Inventor(s)
2,154,968	Alkio
3,385,300	Holter
3,459,189	Alley et al.
3,613,684	Sheridan
3,703,899	Calinog
4,153,058	Nehme
4,813,941	Shea
5,078,689	Keller
5,344,410	Kolkin et al.
5,419,776	Baer
5,478,333	Asherman, Jr.
5,897,531	Amirana

In further conformance with the above provision, each of the above-identified references is discussed in detail below.

U.S. Patent No. 2,154,968 issued to Alkio, provides, in relevant part, that obstruction of the lachrymal duct is a disease which is very difficult to treat and remedy. In many cases, an operation would be necessary, but many patients object to this procedure. For this reason, I have made extensive experiments for the purpose of enlarging, without having recourse to an operation, the lachrymal duct by inserting into the same an element adapted to enlarge the same. To enable free flow of the tear secretion during the treatment, which may last for several weeks or months, the enlarging element is constructed in the form of a metal spiral.

However, the '968 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said

stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 3,385,300 issued to Holter, provides, in relevant part, a cervical cannula comprising a tapered cone made of flexible material and having a pointed end and a blunt end, thread means molded onto the cone for easy insertion of the cone into a cervical canal and for retention and sealing of the cone therein, said thread means including a helical thread having teeth with front and rear faces extending along the cone, with the front faces of the teeth slanting toward the blunt end of the cone for easy insertion, and the rear faces of the teeth slanting towards the blunt end of the cone to aid in retention of the cone in the cervical canal, a tube extending from the blunt end of the cone to an open end through which may be passed fluids, and an opening in the pointed end of the cone for passing the fluid into the cervical canal. A stylus of bendable metal is provided for inserting the cannula, and a criss-cross fabric is molded onto the outside of the tube to aid in transmitting torque from the open end of the tube to the cone.

However, the '300 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub,

said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 3,459,189 issued to Alley et al., provides, in relevant part, a trocar catheter which is sterile packaged and ready for immediate use. The trocar catheter has a trocar with an abutment near its distal end which is adapted to engage an abutment extending from the internal surface of the catheter near its distal end such that the abutment on the trocar assists in placing the catheter. The trocar is suitably marked in such a way that the exact location of the catheter can be determined by reference to the trocar. The trocar and catheter have aligned end surfaces which cooperate to provide a smooth point for penetrating the area being punctured. The proximal end of the trocar is ball shaped for providing a surface which better cooperates with the physician's hand in placing the trocar. The ball shaped end of the trocar cooperates with the package for ease in storing and removing the trocar from the package. The catheter has an X-ray opaque line and drainage openings near the distal end at least one of which openings coacts with the X-ray opaque line to indicate the location of the end of the catheter in the patient under appropriate techniques. However, the '189 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 3,613,684 issued to Sheridan, provides, in relevant part, a trocar catheter formed with a rigid shaftlike stylet and an encircling catheter made of plastic material. The catheter has a molded rigid distal end member with a conical shape, a closed rounded tip fixed to a flexible tube, and at least one fluid opening through the side. The rigid

distal end member has an interior that conforms to the shape of the stylet tip. The device may be used in emergency cases where the catheter is forced through the chest wall of a patient over the stylet which is then withdrawn to let fluid pass through the catheter or for suprapubic cystostomy procedures.

However, the '684 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 3,703,899 issued to Calinog, provides, in relevant part, a trocar slidably mounted in a main tube and normally disposed at its front end. Connected to the rear end of the trocar is a rod that extends back through the tube and out its rear end. A tubular bellows encircles the rod and has a front end sealed to the trocar, while the rear end of the bellows is sealingly connected to the rear end of the tube. After the tube is inserted in an incision, the trocar is pulled back into a position near the rear end of the tube. Directly in front of this rear portion the tube is provided with a lateral outlet opening and a discharge tube so that drainage can occur back through the two tubes.

However, the '899 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub

coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 4,153,058 issued to Nehme, provides, in relevant part, a pleural decompression catheter for releasing entrapped air within a human body. The device comprises an elongated member axially insertable into a human body and having fluid passage means for establishing fluid communication from the exterior of the elongated member to one end of the member positioned exteriorly of the body. A one-way valve is coupled to the exteriorly extending end of the elongated member so that entrapped air within the body can flow through the passage means in the elongated member, through the one-way valve and exhaust exteriorly of the human body.

However, the '058 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 4,813,941 issued to Shea, provides, in relevant part, an apparatus for providing immediate temporary treatment of pneumothorax in a patient by exhausting the pleural cavity. The apparatus incorporates an exhaustion device having a standard luer lock lug receptacle enabling use of a multiple of different size and models of pleural cavity entrance devices having standard luer lock connecting lugs. The exhaustion device also

incorporates a one-way valve on the luer lock lug receptacle for exhausting fluid from the pleural cavity and preventing fluid from flowing into the pleural cavity. Projecting wings ease the handling of the apparatus and provide tape attachment surfaces for securing of the apparatus to a patient.

However, the '941 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 5,078,689 issued to Keller, provides, in relevant part, a medical device useful for removing fluids from body cavities. A flexible catheter is attached to a stabilizing base with a collar forming a vestibule on the opposite side of the base. The vestibule is sealed with a stopper or diaphragm. A needle is inserted through the stopper, into the diaphragm, through a central hole in the base and through the lumen of the catheter and out the terminal hole of the catheter. After insertion into the body, the needle is withdrawn leaving the catheter and base in place for drainage. The unit is a self sealing structure to prevent introduction of contamination of ambient air.

However, the '689 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub

coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 5,344,410 issued to Kolkin et al., provides, in relevant part, a device comprising an outer tube having a central canal and perforations at its one end, a stylet fitted in the central canal of the outer tube, an inner tube, which is in fact a non-return valve and with its one end tightly connected to the outer tube and with its opposite end stretched over the stylet with a possibility of slipping off the latter and getting everted. The device has a receptacle for collecting the pleural fluid, tightly connected to the outer tube and the inner tube, and a retainer for fixing the device in position.

However, the '410 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 5,419,776 issued to Baer, provides, in relevant part, an apparatus for treating pneumothorax and pneumohemothorax comprising a one-way valve having a top end and a bottom end and a suction port secured to and extending beyond the top end, a conduit secured to and extending perpendicularly away from the bottom end of the one-way valve in flow communication therewith a 90 degree elbow removably securable to a distal end of the conduit in flow communication therewith and a luer lock lug receptacle secured to the 90

degree elbow and adapted to threadingly receive luer lock lugs on a large bore needle or catheter. The 90 degree elbow is removably securable to the conduit and may be removed and replaced with a connection adapter. The connection adaptor has a first end removably securable to the distal end of the conduit and a second end removably securable to a chest tube surgically inserted in the pleural space. The apparatus may also include an injection port extending from and in flow communication with the conduit. The injection port being adapted to receive a needle such that an aqueous solution may be directed toward said one-way valve from said needle.

However, the '776 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 5,478,333 issued to Asherman, Jr., provides, in relevant part, a medical dressing for treating open chest injuries, or other injuries that compromise or could possibly compromise the pleural space of the chest cavity. Specifically, a medical dressing used by first responders to treat an open pneumothorax, treat and/or prevent a tension pneumothorax from developing, remove the accumulated blood of a hemothorax or reinflating a collapsed lung without invasive procedures and in some instances act as a conduit for treating a tension pneumothorax or a collapsed lung with invasive procedures.

However, the '333 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet

distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an open-ended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

U.S. Patent No. 5,897,531 issued to Amirana, provides, in relevant part, a surgical retainer device for temporarily, but movably, affixing in place, a tube or catheter as it passes through the skin or enters a body cavity. The retainer is adhesively attached to the skin and is constructed in such a way to hold firmly the tube or catheter that penetrates the skin and enters a space within the body. The device may be used to place a medication or ointment at the site of the skin entry. The retainer utilizes a compression or friction fitting which allows the tube or catheter to be moved in or out of the opening through the skin. The device is especially suitable for retaining a chest tube during treatment of pneumothorax although its use is not so limited. However, the '531 patent does not disclose or suggest a device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube having, a lumen, an open-ended distal end portion and an openended proximal end portion and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumen of said hub, and a oneway valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub, as is claimed by the present application.

Finally, enclosed is a copy of the claims of the above-identified patent application as originally filed. None of the references satisfies the need in the art for a device that can be

safely used by less experienced medical personnel, including first responders, to quickly and easily treat patients suffering from pneumothorax, tension pneumothorax, and/or hemothorax on battlefields, conditions of mass casualty, conditions of environmental chemical, biologic, or radiologic contamination, as well as in more conventional settings, such as within ambulances and hospitals, as is provided by the claims of the present application.

Submitted herewith is the fee required under 37 C.F.R. 1.17(h). In view thereof, it is respectfully requested that this application be accorded "special" status under 37 C.F.R. 102(d).

If additional information is required, please contact the undersigned.

Respectfully submitted,

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JWM/SMH

1. A device for treating pneumothorax, tension pneumothorax, and/or hemothorax,

comprising:

a trocar obturator unit comprising a stylet with a distal end and a proximal end,

wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein

a stopper is coupled to said stylet distally of said point;

a catheter assembly comprising (a) a tube dimensioned to receive said stylet, said tube

having, a lumen, an open-ended distal end portion and an open-ended proximal end portion

and at least one fluid opening through the sidewall, and (b) a hub coupled to said open-ended

distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and

dimensioned to receive at least a portion of said stopper to position the stylet relative to the

catheter assembly and seal the lumen of said hub; and

a one-way valve, wherein one end of said one-way valve is sealed to at least a portion

of said hub, said one-way valve being configured such that the lumen of the one-way valve is

continuous with the lumens of said tube and said hub.

2. The device claim 1, wherein the point on the proximal end of said stylet extends

beyond the proximal end portion of said tube when said stylet is inserted into said catheter

assembly.

3. The device of claim 1, wherein the diameter of said stopper is larger than the

diameter of the lumen of said one-way valve.

4. The device of claim 1, wherein at least a portion of said stopper is removably

retainable in at least a portion of said hub.

5. The device of claim 1, wherein at least one of the exterior of said stopper or the

interior of said one-way valve is coated with a lubricant.

6. The device of claim 1, wherein said trocar obturator unit further comprises a pull-

handle attached to said stopper.

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7. The device of claim 1, wherein said pull-handle is a ring.

8. The device of claim 1, wherein said pull-handle is a tab.

9. The device of claim 1, wherein an annular recess is formed in the outside wall of

said hub.

10. The device of claim 9, wherein said one-way valve is secured to said hub by a

retaining ring positioned over said one-way valve within said recess.

11. The device of claim 9, wherein said one-way valve is secured to said hub by at

least one band unwindably positioned over said one-way valve within the recess of said hub,

and wherein an at least one adhesively-coated tab is attached to said at least one band for

securing said device to a patient.

12. The device of claim 11, wherein said at least one tab includes a removable

covering for maintaining said adhesive during periods of non-use.

13. The device of claim 1, further comprising a disk coupled to said catheter

assembly for securing said trocar unit to a patient.

14. The device of claim 6, wherein at least one of said stylet, catheter assembly, one-

way valve, and pull-handle, are composed of a radio-opaque material.

15. The device of claim 1, wherein said tube is kink-resistant.

16. The device of claim 1, wherein said tube is composed of coiled monofilament

polymer fiber coated with a biologically inert plastic.

17. A method of treating a pneumothorax, tension pneumothorax, and/or hemothorax

comprising the steps of (a) inserting at least the proximal portion of the device of claim 1 into

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the affected site within the body cavity of a patient, and (b) removing the trocar obturator unit from the catheter assembly.